



Serial No.: 09/659,481
Filed: 09/11/2000
No.: Q00-1032-US1
Inventor: ADAMS et al.
Attorney: Tejpal S. Hansra

Reply to Office Action of August 18, 2003
Reply Mailed: February 18, 2004
Confirmation No.: 5650
Group Art Unit: 2697
Telephone: 360-527-1400

Replacement Sheet 1 of 15 sheets

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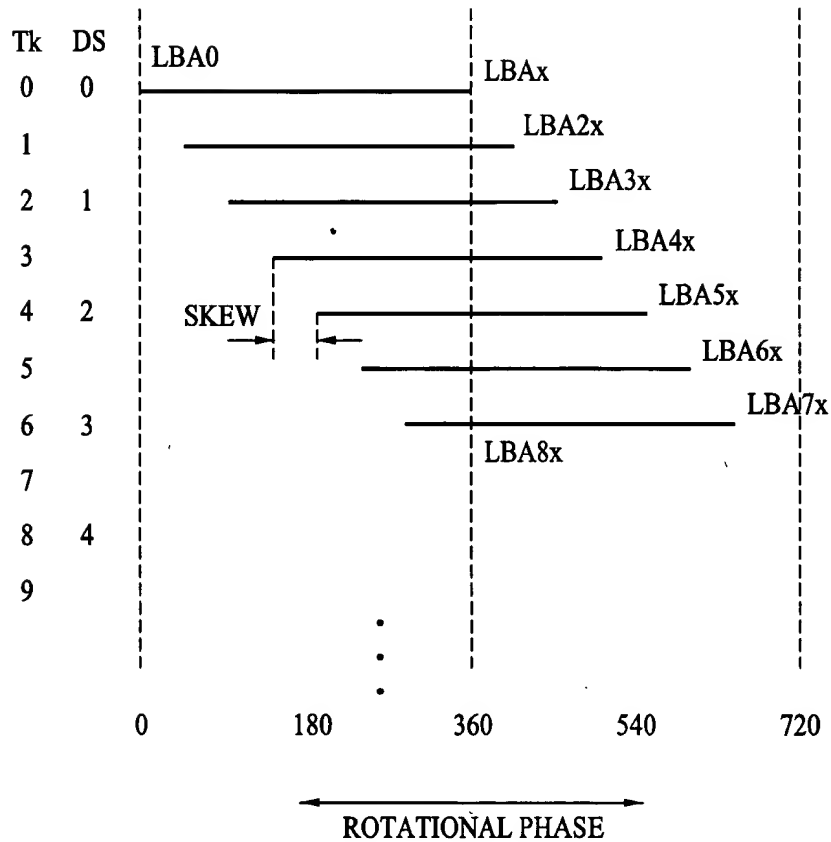
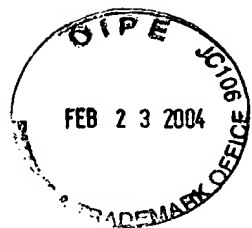


Fig. 1
PRIOR ART



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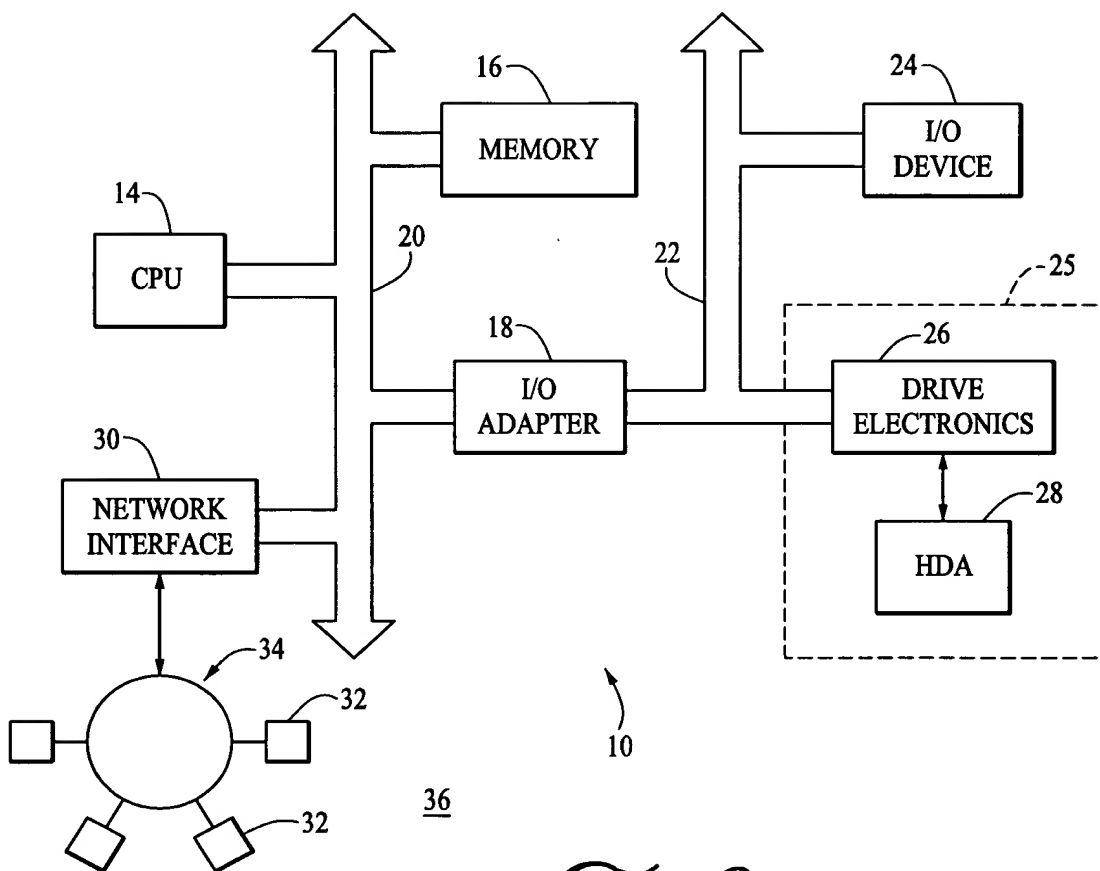


FIG. 2



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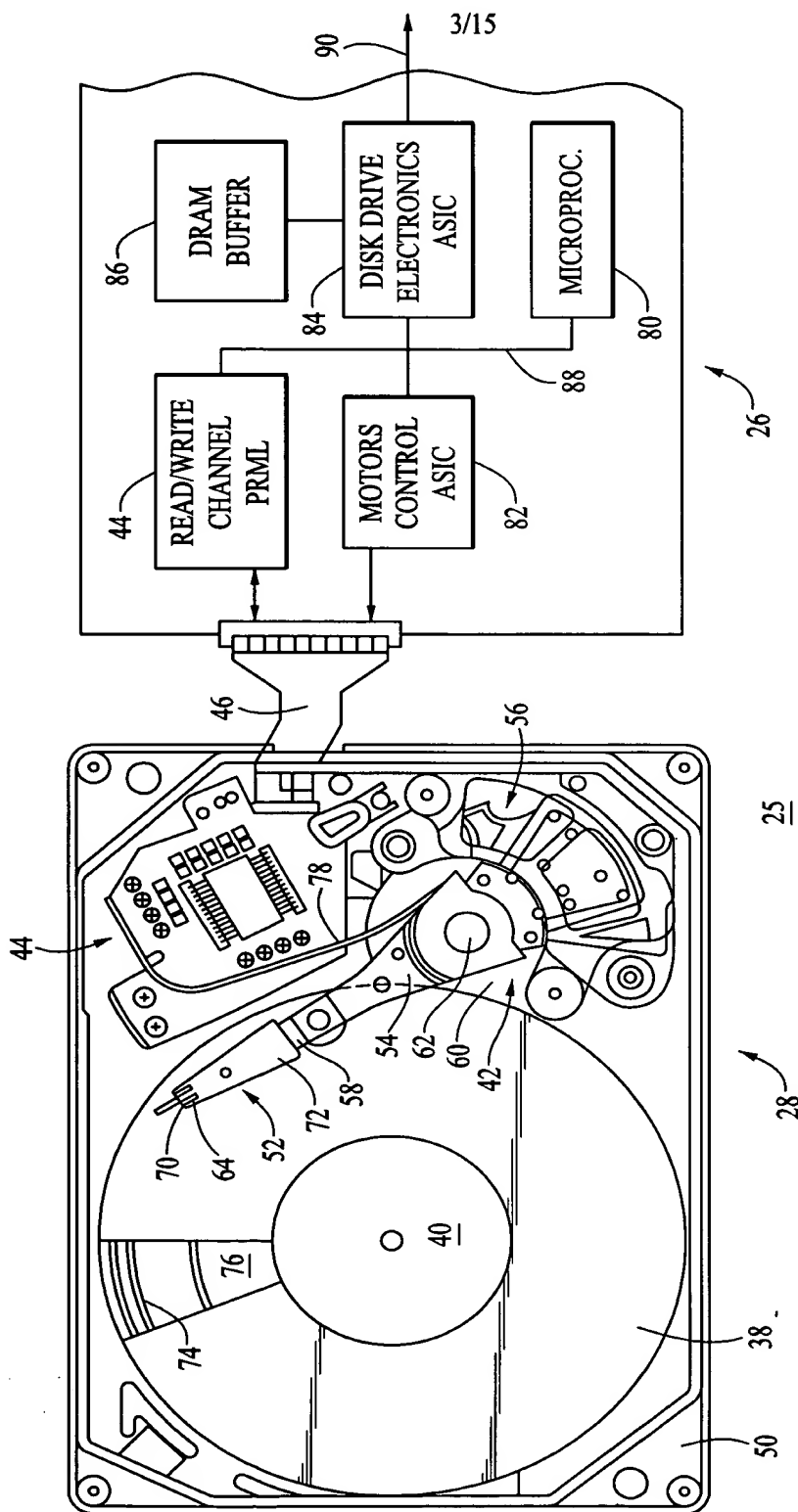
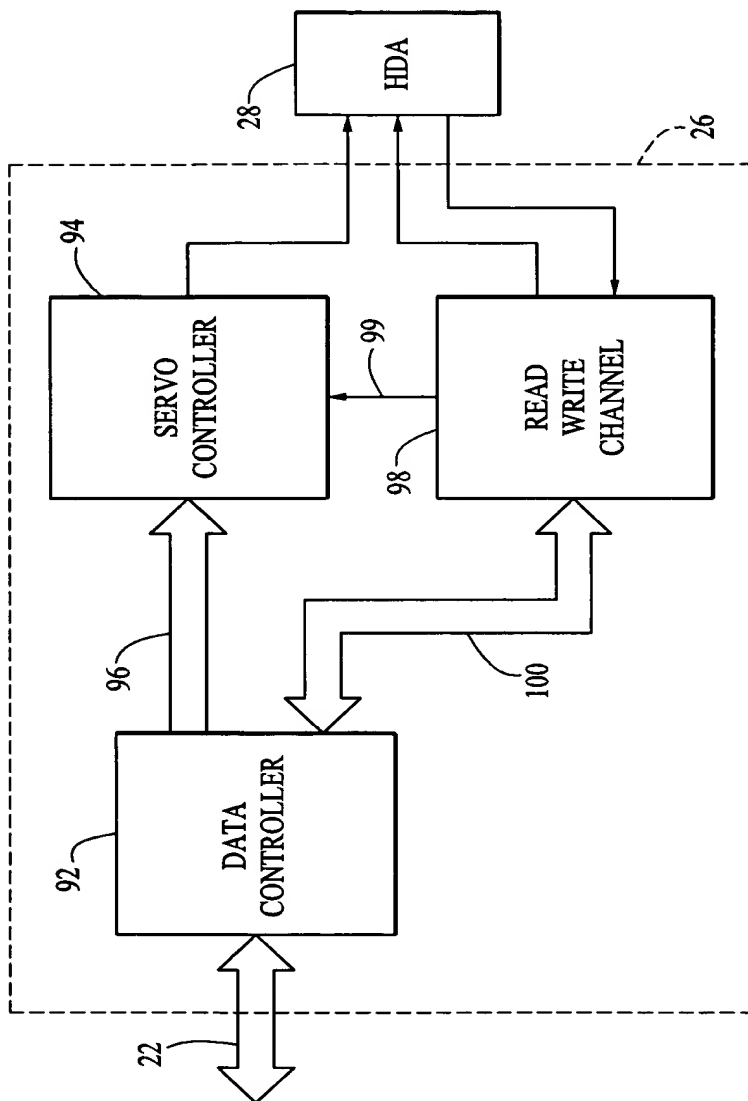
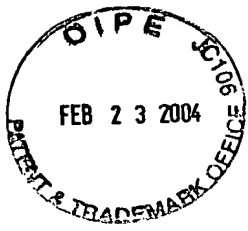


FIG. 3

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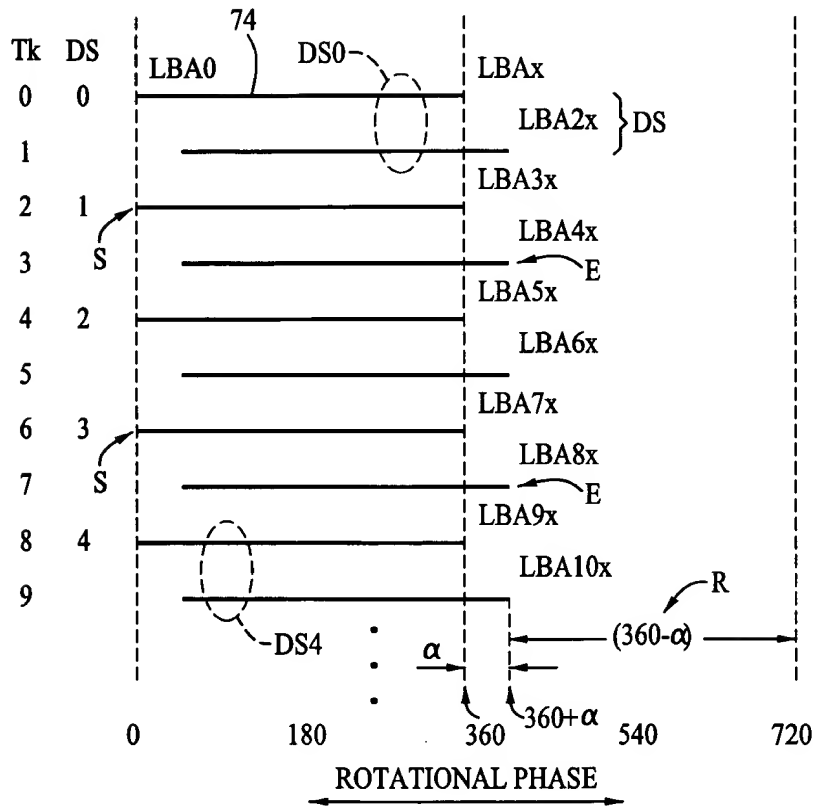


Fig. 5



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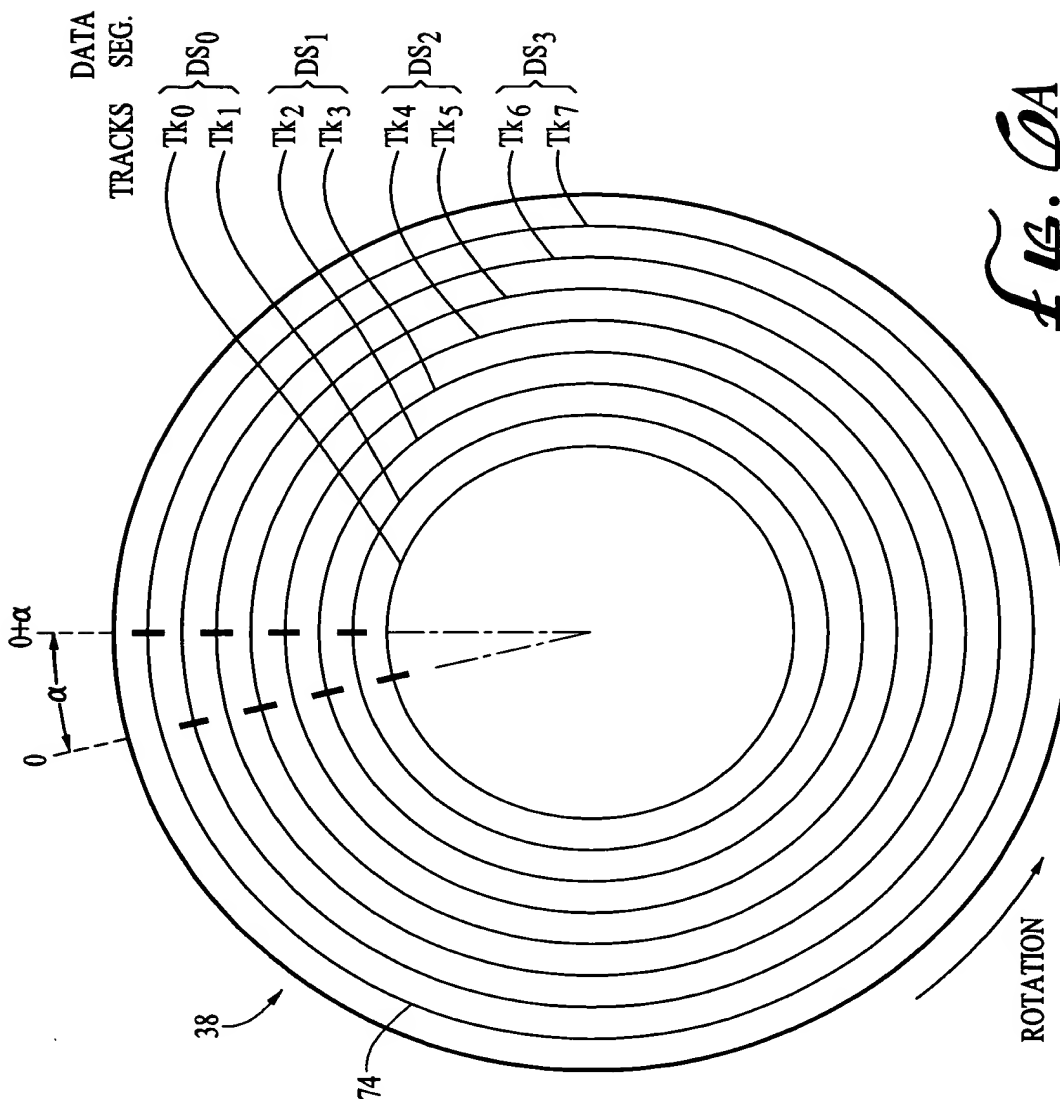


Fig. OB



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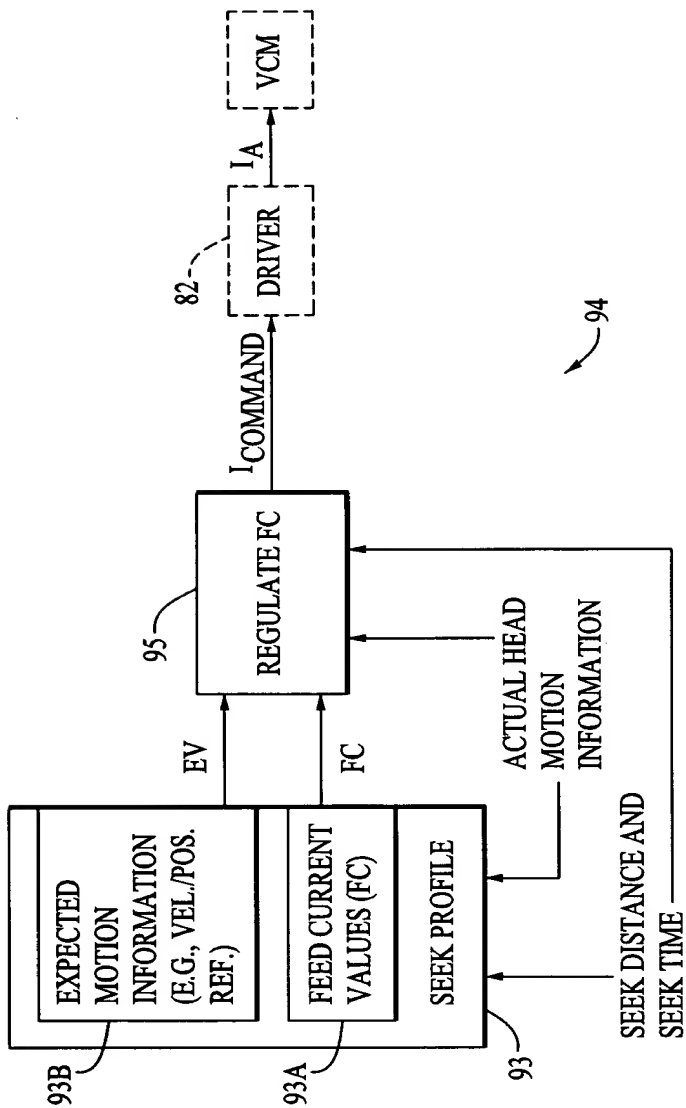


FIG. 7A



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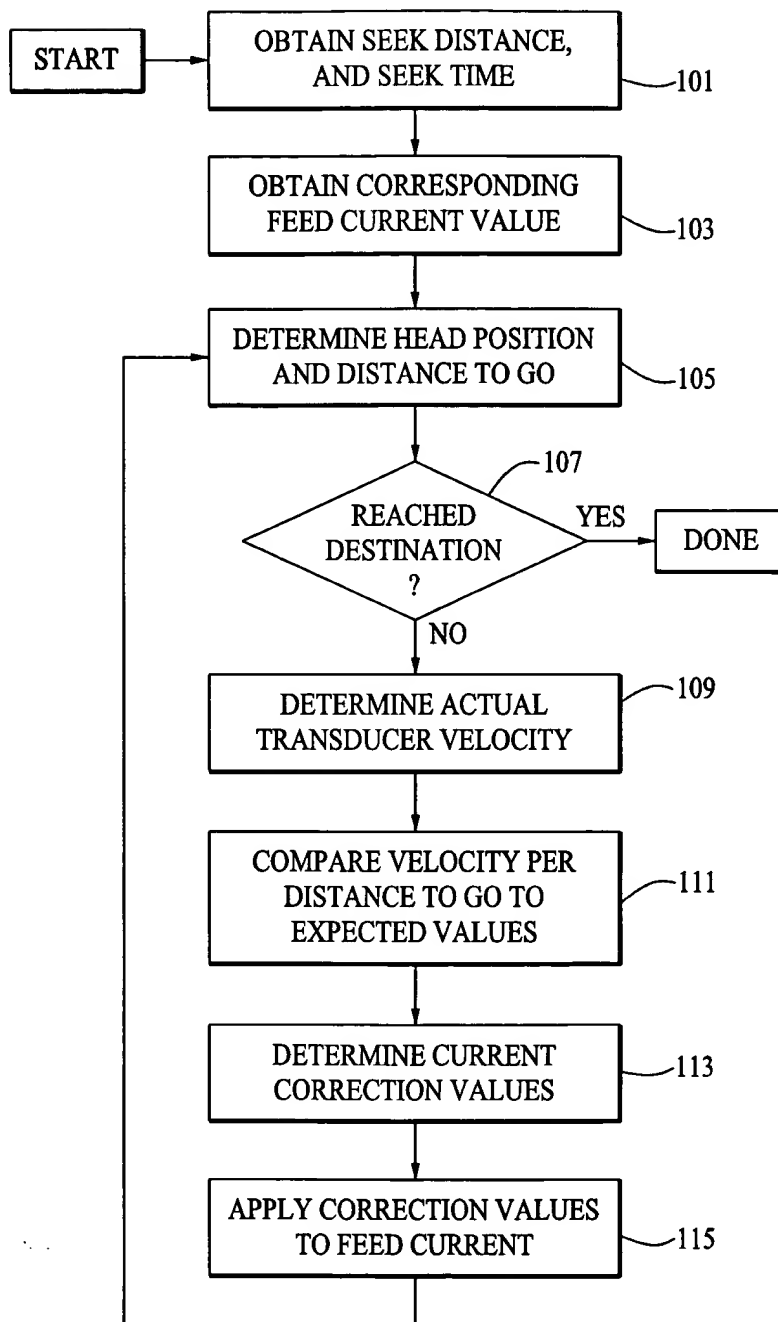


Fig. 7B



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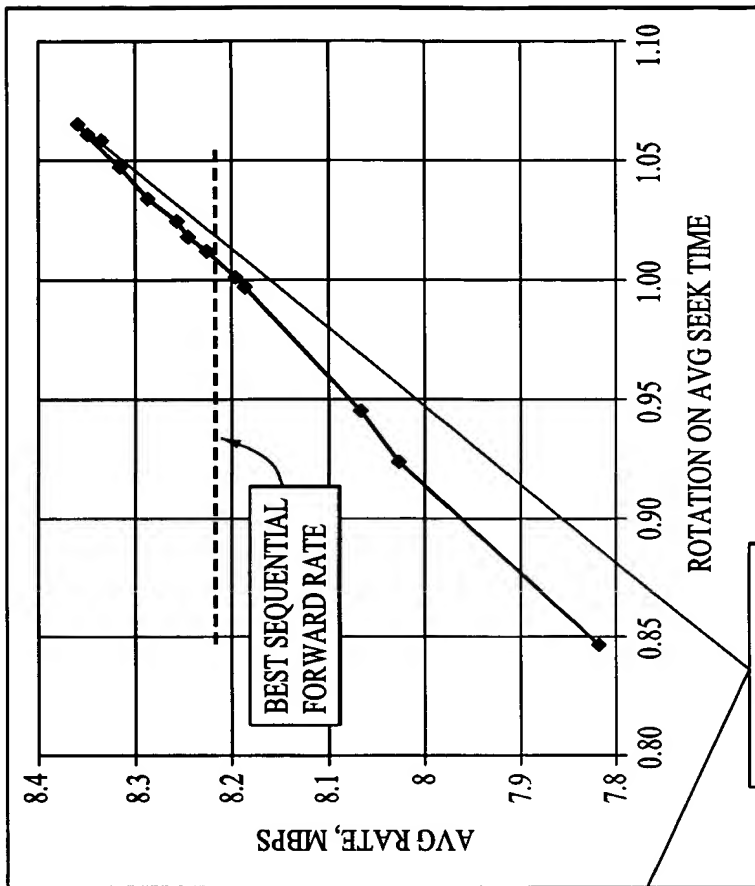
SUMMARY OF VARIOUS SOLUTIONS - 2 TRACKS PER DS
8.4 AVG SEEK TIME
11 TREV

SKEW MODULUS	SKEW FACTOR	SKEW TIME	ROTATION PHASE	ROTATION TIME, MSEC	ROTATION ON	AVG RATE, MBPS
					AVG SEEK TIME	
17	6	3.88	0.647	7.12	0.85	7.82
17	5	3.24	0.706	7.76	0.92	8.03
18	5	3.08	0.722	7.94	0.95	8.07
21	5	2.62	0.762	8.38	1.00	8.19
17	4	2.59	0.765	8.41	1.00	8.2
22	5	2.50	0.773	8.50	1.01	8.23
18	4	2.44	0.778	8.56	1.02	8.25
23	5	2.39	0.783	8.61	1.02	8.26
19	4	2.32	0.789	8.68	1.03	8.29
20	4	2.20	0.800	8.80	1.05	8.32
21	4	2.10	0.810	8.90	1.06	8.35
32	6	2.06	0.813	8.94	1.06	8.36
64	12	2.06	0.813	8.94	1.06	
128	24	2.06	0.813	8.94	1.06	
256	48	2.06	0.813	8.94	1.06	
512	96	2.06	0.813	8.94	1.06	
1024	191	2.05	0.813	8.95	1.07	

Fig. 8A



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ROTATION ON				ROTATION AVG SEEK				AVG RATE, MBPS			
SKEW				ROTATION				AVG RATE, MBPS			
MODULUS				TIME, MSEC				TIME, MSEC			
FACTOR				TIME, MSEC				TIME, MSEC			
32	6	2.06	0.813	8.94	1.06	8.36					

1.7% IMPROVEMENT OVER BEST SEQUENTIAL RATE
7% INCREASE OVER THIS RANGE

Fig. 8B



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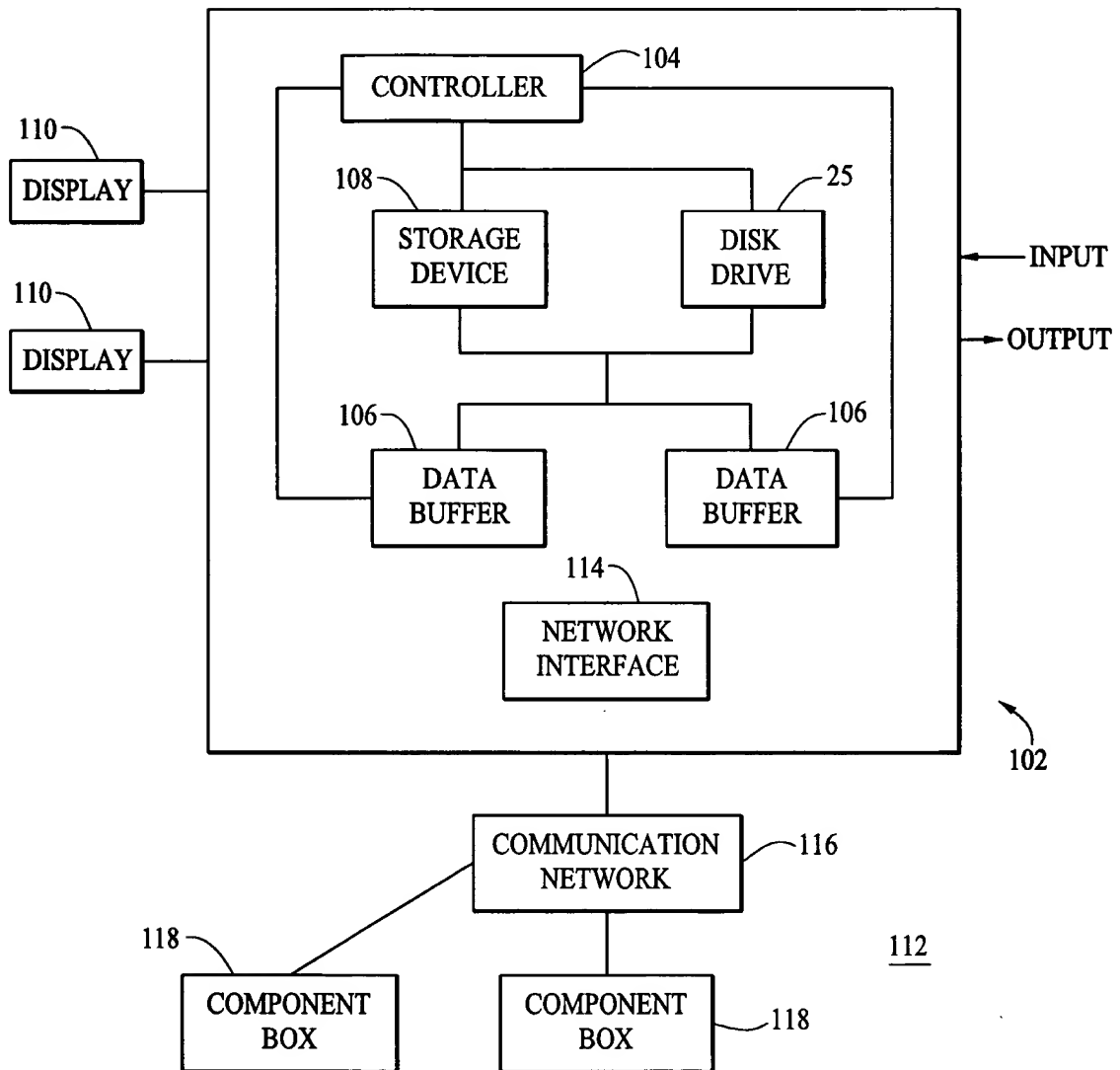


FIG. 9



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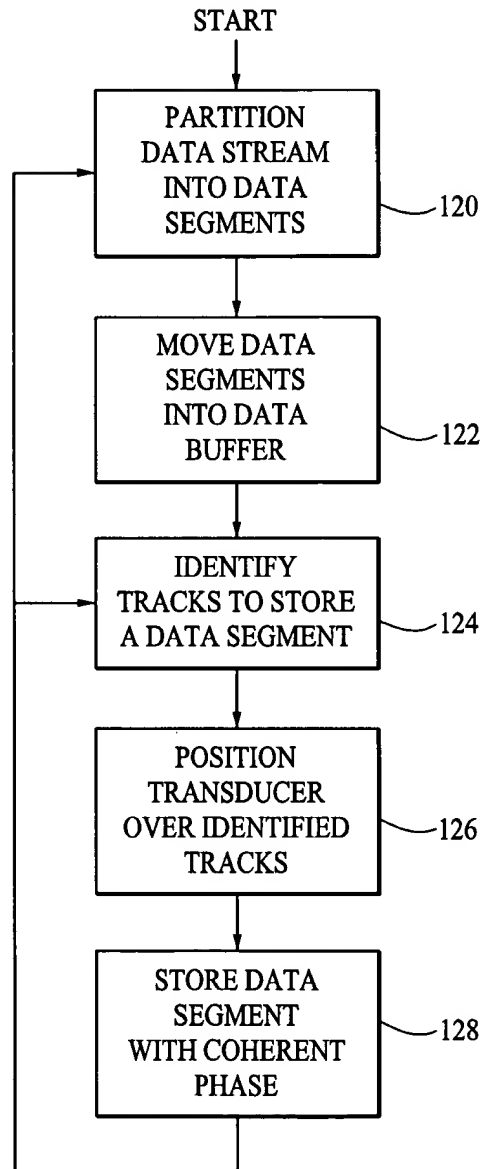


Fig. 10



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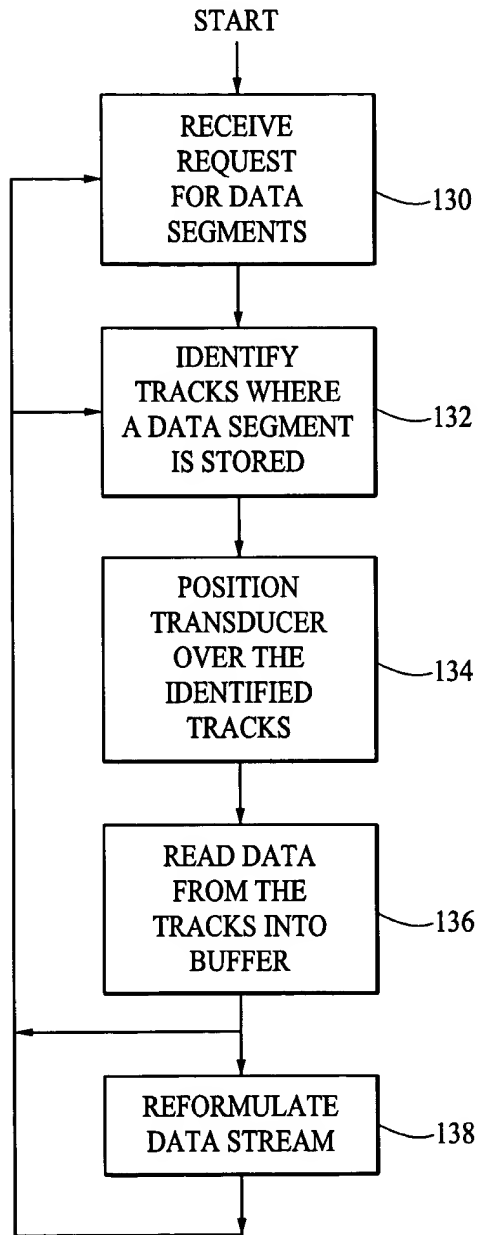


Fig. 11



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